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**From:** Dan Pope [DPope@css-inc.com]  
**Sent:** 5/15/2017 10:53:56 PM  
**To:** Jennings, Eleanor [Eleanor.Jennings@parsons.com]; Wayne Miller [Miller.Wayne@azdeq.gov]  
**CC:** Bo Stewart [Bo@praxis-enviro.com]; Cosler, Doug [Doug.Cosler@TechLawInc.com]; Davis, Eva [Davis.Eva@epa.gov]; d'Almeida, Carolyn K. [dAlmeida.Carolyn@epa.gov]  
**Subject:** RE: 2017-5-11 - Williams AFB - FYI - EPA requests tues or wed conf call to discuss - EBR checklist input - ST012 - cda epa

Since all my stuff relating to the list is “comments/thoughts/ideas”, so “I thought I would maybe keep that version for myself”.



I did add methane and alkalinity to the geochemistry list.

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**From:** Jennings, Eleanor [mailto:Eleanor.Jennings@parsons.com]  
**Sent:** Friday, May 12, 2017 8:13 AM  
**To:** Wayne Miller  
**Cc:** Bo Stewart; Dan Pope; Cosler, Doug  
**Subject:** RE: 2017-5-11 - Williams AFB - FYI - EPA requests tues or wed conf call to discuss - EBR checklist input - ST012 - cda epa

Good morning, Gentlemen!

Per the below, Carolyn would like to see a rough draft of the checklist before Tuesday's conf call. I agree - I think it makes sense to have 1. Something to actually look at, so specific comments can be made, and 2. Us all looking at the same thing.

**Bo, Doug, and Dan:** I had sent each of you my initial draft of a checklist. Can you please edit this list as you see fit, using Track Changes (it just makes for faster editing). Since the purpose of Tuesday's call is to discuss the checklist, please try to minimize comment boxes/bubbles in the version you send me – I'm going to have a very short time to pull all three of your edits together and then disperse back out to the group before the call. If you have comments/thoughts/ideas, a thought would be to maybe keep that version for yourself to use to help initiate the conversation during the call. Again, I'm just going to be short on time to turn things around.

If possible, can the three of you please have your comments back to me by 5PM EST Monday? This would allow me to pull things together and then send the compiled version to the group in time for people to look it over prior to the call on Tuesday. **Dan** – you're just getting back to the office on Monday, so let me know if you'll need a little more time.

**Wayne:** Any other thoughts, ideas, comments, etc?

MANY thanks to all of you for your help on this,  
E

Eleanor M. Jennings, M.S., PhD  
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"Safety Isn't Expensive. It's Priceless."

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**From:** Wayne Miller [<mailto:Miller.Wayne@azdeq.gov>]  
**Sent:** Thursday, May 11, 2017 6:44 PM  
**To:** d'Almeida, Carolyn K. <[dAlmeida.Carolyn@epa.gov](mailto:dAlmeida.Carolyn@epa.gov)>; Henning, Loren <[Henning.Loren@epa.gov](mailto:Henning.Loren@epa.gov)>  
**Cc:** Bo Stewart <[Bo@praxis-enviro.com](mailto:Bo@praxis-enviro.com)>; Davis, Eva <[Davis.Eva@epa.gov](mailto:Davis.Eva@epa.gov)>; 'Dan Pope' <[DPope@css-inc.com](mailto:DPope@css-inc.com)>; Cosler, Doug <[Doug.Cosler@TechLawInc.com](mailto:Doug.Cosler@TechLawInc.com)>; Jennings, Eleanor <[Eleanor.Jennings@parsons.com](mailto:Eleanor.Jennings@parsons.com)>  
**Subject:** 2017-5-11 - Williams AFB - FYI - EPA requests tues or wed conf call to discuss - EBR checklist input - ST012 - cda epa

FYI – Tues or wed OK...

Please note Eleanor Jennings changed email address:

Jennings, Eleanor <[Eleanor.Jennings@parsons.com](mailto:Eleanor.Jennings@parsons.com)>

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**From:** d'Almeida, Carolyn K. [<mailto:dAlmeida.Carolyn@epa.gov>]  
**Sent:** Thursday, May 11, 2017 3:32 PM  
**To:** Wayne Miller <[Miller.Wayne@azdeq.gov](mailto:Miller.Wayne@azdeq.gov)>; Henning, Loren <[Henning.Loren@epa.gov](mailto:Henning.Loren@epa.gov)>  
**Cc:** Bo Stewart <[Bo@praxis-enviro.com](mailto:Bo@praxis-enviro.com)>; Eleanor Jennings <[ejennings@teci.pro](mailto:ejennings@teci.pro)>; Davis, Eva <[Davis.Eva@epa.gov](mailto:Davis.Eva@epa.gov)>; 'Dan Pope' <[DPope@css-inc.com](mailto:DPope@css-inc.com)>; Cosler, Doug <[Doug.Cosler@TechLawInc.com](mailto:Doug.Cosler@TechLawInc.com)>  
**Subject:** 2017-5-11 - Williams AFB - FYI - EPA requests tues or wed conf call to discuss - EBR checklist input - ST012 - cda epa

I am going to take tomorrow and Monday off; let's set up a call for next Tues or Weds to discuss our response. It would be helpful to see a strawman checklist proposal that we can comment on. Also we need to discuss format for forwarding our modeling conclusions in a way that will be effective for communicating with Phil. He did seem genuinely surprised at our estimate of 200+ years for time of remediation, and readily admitted that if that is truly the case, we have remedy failure with EBR already. I don't think he had ever heard that before. The spreadsheet should probably be accompanied by a short cover letter discussing the assumptions and conclusions in laypersons terms.

Carolyn d'Almeida  
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*"Because a waste is a terrible thing to mind..."*

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**From:** Wayne Miller [<mailto:Miller.Wayne@azdeq.gov>]  
**Sent:** Thursday, May 11, 2017 12:47 PM  
**To:** d'Almeida, Carolyn K. <[dAlmeida.Carolyn@epa.gov](mailto:dAlmeida.Carolyn@epa.gov)>  
**Cc:** Bo Stewart <[Bo@praxis-enviro.com](mailto:Bo@praxis-enviro.com)>; Eleanor Jennings <[ejennings@teci.pro](mailto:ejennings@teci.pro)>; Davis, Eva <[Davis.Eva@epa.gov](mailto:Davis.Eva@epa.gov)>

**Subject:** 2017-5--11 Williams AFB - Request assistance for Eleanor et al -- EBR phased implementation checklist detail input - ST012

Can folk please help me clarify the "check list" detail level? Eleanor may not have the site specific items or document access to provide an exacting and specific: "here, ...we want xyz sample quantity....here we need....abc geochemical analyses for 12 something analysis..... At this ABC Feet depth Bacterial population must expand  $1 \times 10^6$  or 1000 percent within 8 months or ABC stratum is a failure.....

Anyway .. can Eleanor obtain some input and clarification? Please forward to the folk that can help. Exactly how much detail does EPA want for this checklist? Can you please provide input on which path EPA believes is more efficient? (1) A general list of tests/analyses can be brainstormed, but leave off specifics such as proposed sampling locations, intervals, etc. Then EPA's subject matter experts can flesh out and detail the draft list.

OR (2) Attempt to have all subject matter experts provide detail up front confab or submit to Eleanor's group and then try to build check list.

Thank you... Just looking for what is best for the people that know more than I.

sample	Sample location (well) ID or proposed new well	Sample depth (ft bgs)	Geochemical analysis A	Geochemical analysis B	Geochemical analysis B	Elapsed time from project start		
1						Before start - Base population	T1 + X days count /Percent growth	T1 + Y days count /Percent g
2						Before start - Base population	T2 + X days - count /Percent growth	T2 + Y days count /Percent g
3						Before start - Base population	T3 + X days - count /Percent growth	T2 + Y days count /Percent g

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